

Comparisons of Job Characteristics

Focus Occupation: Avionics Technicians (49-2091)

Associated Occupation: Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 72

Focus Occupation: Avionics Technicians (49-2091)

Associated Occupation: Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	12.6	9.6	<< Extensive education and/or training may be required
Computers and Electronics	8.4	11.7	14.7	> Current knowledge level is likely sufficient
Production and Processing	6.0	11.5	9.5	< Expanded education and/or training may be required
Engineering and Technology	5.7	11.0	13.0	> Current knowledge level is likely sufficient
Design	5.2	8.8	6.4	<< Extensive education and/or training may be required
Building and Construction	4.0	8.6	1.3	<< Extensive education and/or training may be required
Physics	4.3	8.3	5.2	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Avionics Technicians (49-2091)

Associated Occupation: Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Repairing	3.4	9.2	13.9	>> Skill level is likely more than sufficient
Troubleshooting	4.5	8.8	13.8	>> Skill level is likely more than sufficient
Equipment Maintenance	3.5	8.6	13.5	>> Skill level is likely more than sufficient
Equipment Selection	3.3	6.1	9.1	>> Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 91			
Focus Occupation: Avionics Technicians (49-2091) Associated Occupation: Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Arm-Hand Steadiness	6.8	11.4	8.8	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	10.3	10.2	0	Current ability level may be sufficient
Finger Dexterity	7.6	10.2	11.5	>	Current ability level is likely sufficient
Control Precision	6.6	9.0	9.5	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	8.7	8.5	0	Current ability level may be sufficient
Multilimb Coordination	6.0	8.5	7.4	<	Some improvement in abilities may be required
Extent Flexibility	4.8	8.3	5.2	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 95
Focus Occupation: Avionics Technicians (49-2091)		
Associated Occupation: Electrical and Electronics Installers and Repairers, Transportation Equipment (49-2093)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Calibrate or adjust electronic equipment or instruments to specification	67	
Conduct sequential tests to locate electronic malfunction	77	
Distinguish colors	44	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electrical fixtures or components	71	
Install electronic equipment, components, or systems	62	
Install electronic power, communication, control, or security equipment or systems	76	
Install or replace meters, regulators, or related measuring or control devices	66	
Install/connect electrical equipment to power circuit	57	
Perform safety inspections in industrial, manufacturing or repair setting	32	
Read blueprints	10	
Read schematics	34	
Read tape measure	41	
Read technical drawings	7	
Repair electronic components, equipment, or systems	74	

Repair or adjust measuring or control devices	71
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand detailed electronic design specifications	70
Understand service or repair manuals	40
Understand technical information for electronic repair work	76
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use oscilloscopes in electronics repair	77
Use precision tools in electronics repair	71
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

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Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.